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1 Specialization tools and techniques for systematic optimization of system software

Dylan McNamee, Jonathan Walpole, Calton Pu, Crispin Cowan, Charles Krasic, Ashvin Goel, Perry Wagle, Charles Consel, Gilles Muller, Renauld Marlet
May 2001 ACM Transactions on Computer Systems (TOCS), Volume 19 Issue 2
Publisher: ACM
Full text available: pdf(178.52 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 66, Citation Count: 14

Specialization has been recognized as a powerful technique for optimizing operating systems. However, specialization has not been broadly applied beyond the research community because current techniques based on manual specialization, are time-consuming ...

Keywords: operating system specialization, optimization, software architecture

2 Advanced Packet Data Testing with Linux

Wesley Erhart, Joseph Bell, Marc Hammons, Mark Mains
January 2000 Linux Journal, Volume 2000 Issue 69es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(26.12 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 23, Citation Count: 0

At Nortel Networks, we have developed a Linux-based system for testing a second-generation packet radio service. During system development we explored the details of packet radio, the IP internals of the Linux oper

3 An Object-Oriented Software Architecture for 3D Mixed Reality Applications

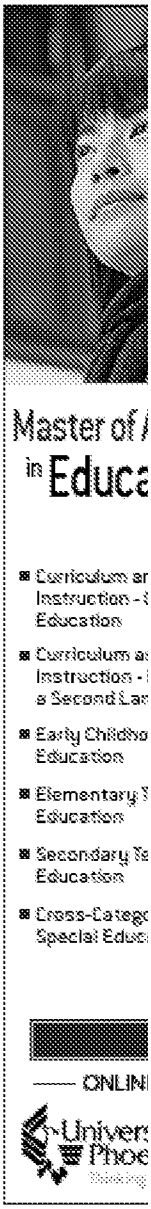
Wayne Piekarski, Bruce H. Thomas
October 2003 ISMAR '03: Proceedings of the 2nd IEEE/ACM International Symposium on Mixed and Augmented Reality
Publisher: IEEE Computer Society
Full text available: pdf(1.00 MB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 6, Citation Count: 7

This paper presents a new software architecture for 3Dmixed reality applications, named Tinmith-evo5. Currently thereare a limited number of existing toolkits for the development of3D mixed reality applications, each optimised for a particularfeature ...

4 Component-based interchangeable cryptographic architecture for securing wireless connectivity in Java^{TM} applications

Johnny Li-Chang Lo, Judith Bishop



September 2003 SAICSIT '03: Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology
Publisher: South African Institute for Computer Scientists and Information Technologists
Full text available: pdf(147.85 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 73, Citation Count: 0

The development of Java based wireless applications presents challenges such as securing communication and authentication between mobile devices and a server. It is acknowledged that cryptography is commonly used to secure network communications and ...

Keywords: component, cryptography, general packet radio services, global system for mobile applications, mobile devices, protocols, separation of concerns, wireless application protocol, wireless transport layer security

5 Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories
Kimfong Lei, Phillip T. Rawles
October 2003 CITC4 '03: Proceedings of the 4th conference on Information technology curriculum
Publisher: ACM
Full text available: pdf(407.50 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 131, Citation Count: 0

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

6 Mapping and displaying structural transformations between XML and PDF
Matthew R. B. Hardy, David F. Brailsford
November 2002 DocEng '02: Proceedings of the 2002 ACM symposium on Document engineering
Publisher: ACM
Full text available: pdf(439.03 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 91, Citation Count: 2

Documents are often marked up in XML-based tagsets to delineate major structural components such as headings, paragraphs, figure captions and so on, without much regard to their eventual displayed appearance. And yet these same abstract documents, after ...

Keywords: PDF, XML, document structure transformation

7 Experience with an evolving overlay network testbed
David G. Andersen, Hari Balakrishnan, M. Frans Kaashoek, Robert Morris
July 2003 ACM SIGCOMM Computer Communication Review, Volume 33 Issue 3
Publisher: ACM
Full text available: pdf(115.26 KB) Additional Information: full citation, abstract, references, cited by

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 28, Citation Count: 2

The MIT RON testbed consists of 36 Internet-connected nodes at 31 different sities. It has been in operation for two years. This paper presents an overview of the testbed, summarizes some of the research for which it has proved useful, and presents the ...

8 MANTIS: system support for multimodAl NeTworks of in-situ sensors
H. Abrach, S. Bhatti, J. Carlson, H. Dai, J. Rose, A. Sheth, B. Shucker, J. Deng, R. Han

September 2003 WSNA '03: Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications

Publisher: ACM

Full text available: pdf(424.53 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 117, Citation Count: 16

The *MANTIS* Multimod*A*l system for *Ne*Tworks of In-situ wireless Sensors provides a new multithreaded embedded operating system integrated with a general-purpose single-board hardware platform to enable flexible and rapid prototyping ...

Keywords: GPS, dynamic reprogramming, lightweight, multimodal prototyping, operating systems, wireless sensor networks

9 Performance debugging for distributed systems of black boxes

Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha Muthitacharoen

October 2003 SOSP '03: Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: pdf(408.86 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 292, Citation Count: 40

Many interesting large-scale systems are distributed systems of multiple communicating components. Such systems can be very hard to debug, especially when they exhibit poor performance. The problem becomes much harder when systems are composed of "black-box" ...

Keywords: black box systems, distributed systems, performance analysis, performance debugging

10 Multiresolution streaming mesh with shape preserving and QoS-like controlling

Bing-Yu Chen, Tomoyuki Nishita

February 2002 Web3D '02: Proceedings of the seventh international conference on 3D Web technology

Publisher: ACM

Full text available: pdf(480.09 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 19, Citation Count: 4

How to transmit 3D meshes efficiently has become an important topic on Web3D platform, since there are more and more people need to use 3D models on the Internet. The data size of a geometric 3D model is usually large for being able to represent more ...

Keywords: geometric quality of service, level of detail, mesh simplification, streaming mesh

11 Proxy compilation of dynamically loaded Java classes with MoJo

Matt Newsome, Des Watson

June 2002 LCTES/ SCOPES '02: Proceedings of the joint conference on Languages, compilers and tools for embedded systems: software and compilers for embedded systems

Publisher: ACM

Full text available: pdf(358.62 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 0

Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java offer dramatic increases in efficiency, but have poor support for ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hotspot, just-in-time, native compilation, proxy compilation, remote compilation

12 Cost profile of a highly assured, secure operating system

Richard E. Smith
February 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 1
Publisher: ACM
Full text available: pdf(165.98 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 96, Citation Count: 3

The Logical Coprocessing Kernel (LOCK) began as a research project to stretch the state of the art in secure computing by trying to meet or even exceed the "A1" requirements of the Trusted Computer System Evaluation Criteria (TCSEC). Over ...

Keywords: LOCK (Logical Coprocessing Kernel), security kernels

13 Proxy compilation of dynamically loaded Java classes with MoJo

Matt Newsome, Des Watson
July 2002 ACM SIGPLAN Notices, Volume 37 Issue 7
Publisher: ACM
Full text available: pdf(358.62 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 52, Citation Count: 0

Interest in Java implementations for resource-constrained environments such as embedded systems has been tempered by concerns regarding its efficiency. Current native compilers for Java offer dramatic increases in efficiency, but have poor support for ...

Keywords: AOT, JIT, adaptive compilation, ahead-of-time, dynamic class loading, hotspot, just-in-time, native compilation, proxy compilation, remote compilation

14 Social weight: designing to minimise the social consequences arising from technology use by the mobile professional

Aaron Toney, Barrie Mulley, Bruce H. Thomas, Wayne Piekarski
October 2003 Personal and Ubiquitous Computing, Volume 7 Issue 5
Publisher: Springer-Verlag
Full text available: pdf(431.74 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 38, Citation Count: 3

This paper defines the concept of social weight as a design consideration and presents the e-SUIT, a social weight research platform incorporated covertly within a traditional business suit. The e-SUIT allows its user to strike a balance between a given ...

Keywords: Mobile professional, Social weight, Wearable

15 An Implementation of the SSF Scalable Simulation Framework on the Cray MTA

Robert R. Henry, Simon H. Kahan, Jason Liu, David M. Nicol
June 2003 PADS '03: Proceedings of the seventeenth workshop on Parallel and distributed simulation
Publisher: IEEE Computer Society
Full text available: pdf(164.29 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 16, Citation Count: 0

Large-scale parallel discrete event simulations of massivenetworks, such as the Internet, are "Grand Challenge"problems: packet level simulation of even a small fraction ofthe Internet would consume the resources of the most powerfulcomputers available. ...

16 GCspy: an adaptable heap visualisation framework

Tony Printezis, Richard Jones
November 2002 ACM SIGPLAN Notices, Volume 37 Issue 11
Publisher: ACM
Full text available: pdf(215.66 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 30, Citation Count: 4

GCspy is an architectural framework for the collection, transmission, storage and replay of memory management behaviour. It makes new contributions to the understanding of the dynamic memory behaviour of programming languages (and especially object-oriented ...

Keywords: Java, garbage collection, language implementation, memory management, visualisation of objects

17 Linux in Education: Linux at the University
Kevin K. Gifford
September 2000 Linux Journal, Volume 2000 Issue 77es
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(33.25 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 22, Citation Count: 0

In outer space, on the ground, and in the classroom: an overview of several exciting real-world applications developed under Linuxstudents and researchers at the University of Colorado in Boulder.

18 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 51, Downloads (12 Months): 798, Citation Count: 0

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

19 Computing and network performance of a distributed parallel processing environment using MPI and PVM communication methods
Dennis Guster, Abdullah Al-Hamamah, Paul Safonov, Elizabeth Bachman
April 2003 Journal of Computing Sciences in Colleges, Volume 18 Issue 4
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(37.88 KB) Additional Information: full citation, references, index terms

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 66, Citation Count: 0

20 Wireless sensor networks for habitat monitoring
Alan Mainwaring, David Culler, Joseph Polastre, Robert Szewczyk, John Anderson
September 2002 WSNA '02: Proceedings of the 1st ACM international workshop on Wireless sensor networks and applications
Publisher: ACM
Full text available: pdf(542.04 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 117, Downloads (12 Months): 1054, Citation Count: 162

We provide an in-depth study of applying wireless sensor networks to real-world habitat

monitoring. A set of system design requirements are developed that cover the hardware design of the nodes, the design of the sensor network, and the capabilities ...

Keywords: environmental monitoring, habitat monitoring, low power systems, sensor network architecture, wireless sensor networks

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